

**CITY OF NEWTON**  
**PURCHASING DEPARTMENT**

***CONTRACT FOR NEWTON FIRE DEPARTMENT***

**PROJECT MANUAL:**  
**SUPPLY AND DELIVER**  
**AIR SUPPLY/CASCADE APPARATUS**  
***INVITATION FOR BID #14-06***

**Bid Opening Date: August 8, 2013 at 10:00 a.m.**

**JULY 2013**  
**Setti D. Warren, Mayor**

**CITY OF NEWTON**  
**PURCHASING DEPARTMENT**  
**INVITATION FOR BID #14-06**

The City of Newton invites sealed bids from Contractors for:

**Supply & Deliver Air Supply/Cascade Apparatus for Newton Fire Department**

Bids will be received until: **10:00 a.m., Thursday, August 8, 2013**  
at the Purchasing Department, Room 204, Newton City Hall, 1000 Commonwealth Ave., Newton, MA 02459. Immediately following the deadline for bids all bids received within the time specified will be publicly opened and read aloud.

Contract Documents will be available online at [www.newtonma.gov/bids](http://www.newtonma.gov/bids) or for pickup at the Purchasing Department after: **10:00 a.m., July 25, 2013.** There will be no charge for contract documents.

The City is looking for bids for a new and unused Air Supply/Cascade Apparatus (ASCA), as more specifically described in "Instructions to Bidders," below. for its Fire Department. The said vehicle and equipment **shall be delivered to the Newton Fire Department, Headquarters Building, 1164 Centre Street, Newton Centre, MA 02459 by the Bidder within 240 calendar days** of delivery of the City's order for the ASCA to the Bidder. If the ASCA is not delivered to the City within the 240 days so specified, it shall be understood and agreed that Bidder shall pay the City, not as a penalty but as liquidated damages, the following sum for each calendar day after and including the day of delivery: Amount for Liquidated Damages: \$1,000 per day.

All bids must be accompanied by a bid deposit in an amount that is not less than ten percent (10%) of the amount of the bid, including all add alternates. Bid deposits, payable to the City of Newton, shall be either in the form of a bid bond, or cash, or a certified check on, or a treasurer's or cashier's check issued by, a responsible bank or trust company. Bidders are reminded that the bid deposit covers the City for damages when a bidder withdraws its bid after the bid submission date. **Be advised that to the extent permitted by the law the City will retain all bid deposits for withdrawn bids.** The successful bidder will be required to furnish a **Performance Bond in the amount of 100% of the amount of the final contract.**

It is Bidder's responsibility to ensure its bid is submitted by the deadline for acceptance. Any bid received after the time for receipt established in this Invitation For Bid (IFB) will be returned unopened. All bids are subject to the provisions of M.G.L. Chapter 30B. Award shall be made to lowest responsive and responsible bidder.

"Equal" - An item equal to that named or described in the specifications of the contract may be proposed by the Bidder. The naming of any commercial name, trademark or other identification shall not be construed to exclude any item or manufacturer not mentioned by name or as limiting competition but shall establish a standard of equality only. An item shall be considered equal to the item so named or described if (1) it is at least equal in quality, durability, appearance, strength and design; (2) it will perform at least equally the function imposed by the general design for the work being contracted for or the material being purchased; and (3) it conforms substantially, even with deviations, to the detailed requirements for the item in the specifications. The name and identification any item other than the one specifically named shall be submitted to the City in writing for approval, at time of bid, use or fabrication of such items. Subject to the provisions of M.G.L., Ch. 30, Sec. 39J, approval shall be at the sole discretion of the City, shall be in writing to be effective, and the decision of the City shall be final. The City may require tests of all materials so submitted to establish quality standards at the Bidder's expense. All directions, specifications and recommendations by manufacturers for installation, handling, storing, adjustment and operation of their equipment shall be complied with; responsibility for proper performance shall continue to rest with the Bidder.

**All bids shall be submitted as one ORIGINAL and one COPY.**

Some City of Newton bids are available on the City's web site, [www.newtonma.gov/bids](http://www.newtonma.gov/bids), Invitation for Bid. It is the sole responsibility of the Bidder downloading an IFB to ensure it has received any and all addenda prior to the bid opening. Addendas will be available online within the original bid document as well as a separate file. If you download bids from the internet site and would like to make it known that your company has done so in order to receive all communications relating to the IFB, you may fax the Purchasing Department (617) 796-1227 or email [purchasing@newtonma.gov](mailto:purchasing@newtonma.gov) with your NAME, ADDRESS, PHONE, FAX AND INVITATION FOR BID NUMBER.

The City will reject any and all bids in accordance with the above referenced General Laws. In addition, the City reserves the right to waive any informalities in any or all bids, or to reject any or all bids (in whole or in part) if it be in the public interest to do so.

CITY OF NEWTON

Nicholas Read  
*Chief Procurement Officer*

July 25, 2013

**CITY OF NEWTON**  
**DEPARTMENT OF PURCHASING**  
**INSTRUCTIONS TO BIDDERS**

**ARTICLE 1 - BIDDER'S REPRESENTATION**

- 1.1 Each General Bidder (hereinafter called the "Bidder") by making a bid (hereinafter called "bid") represents that the Bidder has read and understands the Bidding Documents, Contract Forms, Conditions of the Contract, General Requirements and Project Specifications (collectively, referred to as the "Contract Documents") and the bid is made in accordance therewith.
- 1.2 Failure to so examine the Contract Documents will not relieve any Bidder from any obligation under the bid as submitted.

**ARTICLE 2 - REQUEST FOR INTERPRETATION**

- 2.1 Bidders shall promptly notify the City of any ambiguity, inconsistency, or error which they may discover upon examination of the Contract Documents, the site, and local conditions.
- 2.2 Bidders requiring clarification or interpretation of the Contract Documents shall make a written request to the *Chief Procurement Officer*, at [purchasing@newtonma.gov](mailto:purchasing@newtonma.gov) or via facsimile (617) 796-1227. The City will only answer such requests if received by Friday, August 2, 2013 at 12:00 noon.
- 2.3 Interpretation, correction, or change in the Contract Documents will be made by addendum which will become part of the Contract Documents. The City will not be held accountable for any oral communication.
- 2.4 Addenda will be emailed to every individual or firm on record as having taken a set of Contract Documents.
- 2.5 Copies of addenda will be made available for inspection at the location listed in the IFB where Contract Documents are on file, in addition to being available online at [www.newtonma.gov/bids](http://www.newtonma.gov/bids).
- 2.6 Bidders or proposers contacting ANY CITY EMPLOYEE regarding an IFB or a Request for Proposal (RFP), outside of the Purchasing Department, once an IFB or RFP has been released, may be disqualified from the procurement process.
- 2.7 Bidders downloading information off the internet web site are solely responsible for obtaining any addenda prior to the bid opening. If the Bidder makes itself known to the Purchasing Department, at [purchasing@newtonma.gov](mailto:purchasing@newtonma.gov) or via facsimile (617) 796-1227, it shall be placed on the Bidder's list. Bidders must provide the Purchasing Department with their company's name, street address, city, state, zip, phone, fax, email address and **INVITATION FOR BID #14-06**.

**ARTICLE 3 - MBE PARTICIPATION**

- 3.1 Notice is hereby given that the Mayor's Affirmative Action Plan for the City of Newton in effect at the time of this solicitation is applicable to all construction contracts in excess of \$10,000.00.
- 3.2 Notice is hereby given that the City of Newton Minority/Women Business Enterprise Plan and the Supplemental Equal Employment Opportunity Anti-Discrimination and Affirmative Action Program in effect at the time of this solicitation are applicable to all City contracts for goods and services in excess of \$50,000.00.
- 3.3 Copies of the Plans and Program referred to in Sections 3.1 and 3.2 are available at: [www.newtonma.gov/purchasing](http://www.newtonma.gov/purchasing).

**ARTICLE 4 - PREPARATION AND SUBMISSION OF BIDS**

- 4.1 Bids shall be submitted on the "Bid Form" as appropriate, furnished by the City.

- 4.2 All entries on the Bid Form shall be made by typewriter or in ink.
- 4.3 Where so indicated on the Bid Form, sums shall be expressed in both words and figures. Where there is a discrepancy between the bid sum expressed in words and the bid sum expressed in figures, the words shall control.
- 4.4 Bid Deposits shall be submitted in the amount specified in the IFB. They shall be made payable to the City and shall be either in the form of cash, certified check, treasurer's or cashier's check issued by a responsible bank or trust company, or a bid bond issued by a surety licensed to do business in the Commonwealth of Massachusetts; and shall be conditioned upon the faithful performance by the principal of the agreements contained in the bid. Bidders are reminded that the bid deposit covers the City for damages when a bidder withdraws its bid after the bid submission date. **Be advised that to the extent permitted by the law the City will retain all bid deposits for withdrawn bids.**

Bid deposits of the three (3) lowest responsible and eligible Bidders shall be retained until the execution and delivery of the Owner/Contractor agreement.

- 4.5 The Bid, including the bid deposit shall be enclosed in a sealed envelope with the following plainly marked on the outside:
- \* GENERAL BID FOR: **#14-06**
  - \* NAME OF PROJECT: **Supply & Deliver Air Supply/Cascade Apparatus for Newton Fire Department**
  - \* BIDDER'S NAME, BUSINESS ADDRESS, AND PHONE NUMBER

- 4.6 Date and time for receipt of bids is set forth in the Invitation for Bids.
- 4.7 Timely delivery of a bid at the location designated shall be the full responsibility of the Bidder. In the event that Newton City Hall is closed on the date or at the time that bids are due, the time and date for receipt of bids shall be at the same time on the next business day following that the Newton City Hall is open.
- 4.8 Bids shall be submitted with one **original** and one **copy**.
- 4.9 The Bidder shall have the right to submit with its bid and Exception Sheet (Attachment A) which shall set forth any item which it considers equal to that named in the specifications and for which it wishes to provide a substitute. The City shall have sole discretion as to whether to accept or not accept such substitute(s), which acceptance shall not be unreasonably withheld.
- 4.10 Be advised that a new Massachusetts law has been enacted that required all employees who work on Massachusetts public works construction sites must have no less than 10 hours of OSHA-approved safety and health training. See Chapter 306 of the Acts of 2004, which became effective July 1, 2006.
1. This requirement will apply to any general bid or sub bid submitted.
  2. This law directs the Massachusetts Attorney General to restrain the award of construction contracts to any contractor who is in violation to this requirement and to restrain the performance of these contracts by non-complying contractors.
  3. The contractor and all subcontractors on this project will be required to provide certification of compliance with this requirement. Non-compliance with this law will disqualify you from bidding on public contracts.

## ARTICLE 5 - ALTERNATES

- 5.1 Each Bidder shall acknowledge alternates (if any) in Section C on the Bid Form.
- 5.2 In the event an alternate does not involve a change in the amount of the base bid, the Bidder shall so indicated by writing "No Change", or "N/C" or "0" in the space provided for that alternate.
- 5.3 Bidders shall enter on the Bid Form a single amount for each alternate which shall consist of the amount for work performed by the Contractor.
- 5.4 The low Bidder will be determined on the basis of the sum of the base bid and the accepted alternates.

## ARTICLE 6 - WITHDRAWAL OF BIDS

- 6.1 Any bid may be withdrawn prior to the time designated for receipt of bids on written or telegraphic request. Telegraphic withdrawal of bids must be confirmed over the Bidder's signature by written notice postmarked on or before the date and time set for receipt of bids.
- 6.2 Withdrawn bids may be resubmitted up to the time designated for the receipt of bids.
- 6.3 No bids may be withdrawn within sixty (60) days, Saturdays, Sundays and legal holidays excluded, after the opening of the bids.

## ARTICLE 7 - CONTRACT AWARD

- 7.1 The City will award the contract to the lowest eligible and responsible Bidder within sixty (60) days, Saturdays, Sundays, and legal holidays excluded, after the opening of bids.
- 7.2 The City reserves the right to waive any informalities in or to reject any or all Bids if it be in the public interest to do so.
- 7.3 The City reserves the right to reject any bidder who has failed to pay any local taxes, fees, assessments, betterments, or any other municipal charge, unless the bidder has a pending abatement application or has entered into a payment agreement with the collector-treasurer.
- 7.4 As used herein, the term "lowest responsible and eligible Bidder" shall mean the Bidder (1) whose bid is the lowest of those bidders possessing the skill, ability and integrity necessary for the faithful performance of the work; (2) who has met all the requirements of the invitation for bids; (3) who shall certify that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work; (4) who, where the provisions of section eight B of chapter twenty-nine apply, shall have been determined to be qualified thereunder.
- 7.5 Subsequent to the award and within five (5) days, Saturday, Sundays and legal holidays excluded, after the prescribed forms are presented for signature, the successful Bidder shall execute and deliver to the City a contract in the form included in the Contract Documents in such number of counterparts as the City may require.
- 7.6 In the event that the City receives low bids in identical amount from two or more responsive and responsible Bidders, the City shall select the successful Bidder by a blind selection process chosen by the City such as flipping a coin or drawing names from a hat. The low Bidders who are under consideration will be invited to attend and observe the selection process.

## ARTICLE 8 - TAXES

- 8.1 The Bidder shall not include in this bid any tax imposed upon the sale or rental of tangible personal property in this Commonwealth, such as any and all building materials, supplies, services and equipment required to complete the work.
- 8.2 The City is exempt from payment of the Massachusetts Sales Tax, and the Bidder shall not include any sales tax on its bid. The City's exemption Number is E-046-001-404.

**END OF SECTION**

**CITY OF NEWTON**  
**DEPARTMENT OF PURCHASING**  
**BID FORM #14-06**

- A.** The undersigned proposes to supply and deliver the materials and/or equipment and/or supplies specified below in full accordance with the Contract Documents and Project Manual supplied by the City of Newton entitled:

**SUPPLY AND DELIVER**  
**AIR SUPPLY/CASCADE APPARATUS FOR NEWTON FIRE DEPARTMENT**

for the contract price(s) specified below, subject to additions and deduction according to the terms of the specifications.

- B.** This bid includes addenda number(s) \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,
- C.** The Bidder proposes to furnish and deliver the materials specified at the following price(s) FOB Delivered Newton, MA:

**SUPPLY AND DELIVER AIR SUPPLY/CASCADE APPARATUS**  
**FOR NEWTON FIRE DEPARTMENT**

\$ \_\_\_\_\_

**COMPANY:** \_\_\_\_\_

State Delivery Time (number of calendar days after receipt of order): \_\_\_\_\_

- D.** The undersigned has completed and submits herewith the following documents:

- ☐ Bid Form, 2 pages
- ☐ Bidder's Qualifications and References Form, 2 pages
- ☐ Certificate of Non-Collusion, 1 page
- ☐ Debarment Letter, 1 page
- ☐ IRS Form W-9, 1 page
- ☐ Certificate of Good Standing
- ☐ Attachment A – Exception Sheet, 1 page (optional)
- ☐ A ten percent (10%) bid deposit/bid guarantee
- ☐ Service Questionnaire, 2 pages

- E.** The undersigned agrees that, if selected as contractor, s/he will within five days, Saturdays, Sundays and legal holidays excluded, after presentation thereof by the City of Newton, execute a contract in accordance with the terms of this bid. The undersigned hereby certifies that s/he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work and that s/he will comply fully with all laws and regulations applicable to awards made subject to M.G.L. Chapter 30B. The successful bidder will be required to furnish a Performance Bond each in the amount of 100% of the contract total.

The undersigned further certifies under the penalties of perjury that this bid has been made and submitted in good faith and without collusion or fraud with any other person. As used in this section the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club or other organization, entity, or group of individuals. The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from public contracting or subcontracting in the Commonwealth under the provisions of M.G.L. c.29, §29F or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder.

Date \_\_\_\_\_

\_\_\_\_\_  
(Name of Bidder)

BY: \_\_\_\_\_

\_\_\_\_\_  
(Printed Name and Title of Signatory)

\_\_\_\_\_  
(Business Address)

\_\_\_\_\_  
(City, State Zip)

\_\_\_\_\_  
(Telephone & FAX)

\_\_\_\_\_  
(E-mail address)

**NOTE:** If the bidder is a corporation, indicate state of incorporation under signature, and affix corporate seal; if a partnership, give full names and residential addresses of all partners; if an individual, give residential address if different from business address; and, if operating as a d/b/a give full legal identity. Attach additional pages as necessary.

**END OF SECTION**



**CITY OF NEWTON FIRE DEPT – AIR & LIGHT UNIT**  
**FORD F-550 2 DOOR 4x2/19,500 GVWR 165” W/B**  
**WITH 12’ NON WALK IN EXTRUDED ALUMINUM RESCUE BODY**

INSTRUCTIONS TO BIDDERS

Intent of Specifications

It is the intent of these specifications to cover the furnishing and delivery to the purchaser of a complete vehicle equipped as hereinafter specified. With a view to obtaining the best results and the most acceptable apparatus, these specifications cover minimum requirements as to the type of construction, finish, and tests to which the apparatus must conform, together with certain details as to equipment and appliances to be furnished. Minor details of construction and materials, where not otherwise specified, are left to the discretion of the contractor, who shall be solely responsible for the design and construction. The apparatus shall conform to the requirements of the current (at the time of bid) NFPA Standard for Apparatus to the extent as specified herein.

BIDDERS ARE ADVISED THAT THIS SECTION OF THE SPECIFICATIONS WILL BE EVALUATED BEFORE THE APPARATUS TECHNICAL SPECIFICATIONS. BIDS THAT DO NOT COMPLY WITH OUR BONDING, INSURANCE, DELIVERY, BIDDER QUALIFICATIONS, SERVICE, AND WARRANTY REQUIREMENTS WILL BE IMMEDIATELY DEEMED NON-RESPONSIVE AND SHALL BE IMMEDIATELY REJECTED WITHOUT FURTHER REVIEW OF THE TECHNICAL SPECIFICATIONS.

Qualification of Bidders

Bids will only be considered on vehicles constructed in the continental United States, whose manufacturers have an established reputation of permanency and reliability in the field of fire apparatus construction. Each manufacturer shall furnish satisfactory evidence of their ability to construct the apparatus as specified, and shall state the location of the factory where the complete apparatus will be built.

Bidders must state the location of at least 100 communities in New England using similar all aluminum apparatus supplied by them.

Bids shall only be accepted from corporations registered to do business in this state. Bidders must submit a copy of a current "Certificate of Good Standing" from The Secretary of State. No contract or purchase order shall be awarded to an out of State Corporation not meeting this requirement.

Service Requirements

**It is the intent of the purchaser to assure that parts and service are readily available for the apparatus specified. SERVICE CAPABILITIES WILL BE A MAJOR CRITERIA FOR AWARD OF THIS BID.** To insure proper service, no bid will be accepted unless the bidder owns or offers facilities in state within 50 miles where complete parts and service are available. The facility must be staffed by full time personnel who are factory trained and EVT certified in the operation and repair of the fire apparatus, with full authorization of the manufacturer. In addition, in order to ensure prompt service, the facility must be solely dedicated to the service/repair of emergency vehicles. Facilities that cater to construction and fleet trucks (i.e., highway dept., DPW, oil, concrete, etc.) will not be considered. The facility shall maintain a complete inventory including pump parts, body components, electrical items, fire apparatus hardware, etc., and shall offer on-site services including body fabrication, collision repair, and a paint shop complete with a cross flow booth with air makeup and bake options to insure the highest quality paint finish available. Bids from manufacturers who use third party service people or facilities, or who do not offer a service center will be immediately rejected. Furthermore, due to a concern over having vehicles "out-of-service" for extended periods of time as a result of having to be sent back to the original manufacturer's location for repairs, any bidder who cannot guarantee that all future repairs will be handled at a local level will not be acceptable.

Emergency Vehicle Technician Qualifications

Due to the highly specialized nature of fire apparatus repair, emergency vehicle technicians employed by the bidder shall be in conformance with NFPA standards 1915 and 1071. The bidder shall employ a minimum of fifteen (15) E.V.T. certified technicians including a minimum of one (1) technician certified as a "Master Mechanic" (having amassed every EVT certification). Proof of current certification shall be supplied with the bid. There shall be no exceptions to this requirement. Bids from organizations that do not meet these requirements shall be immediately rejected.

### Delivery

The apparatus shall be delivered under its own power to assure adequate break-in while under warranty. It shall first be transported to the local service facility, where final inspection and preparation will be performed, including mounting of related equipment. The apparatus will then be delivered to the Purchaser's location.

### Post-Delivery Training

On a mutually agreeable date after delivery, a certified delivery engineer shall familiarize those persons designated by the Fire Chief with the basic operation of the apparatus and its components. Such training must be coordinated by a fire department officer with a minimum of 20 years of "hands on" experience on the fire ground. This shall be a full instructional program including both classroom and practical or "hands on" training. Limited programs or "drop-off" type deliveries are unacceptable. All attendees who complete the program shall receive a certificate of attendance as positive proof that they have been trained on the operation of the apparatus. NO EXCEPTION!

### Construction Time

The completed apparatus shall be delivered within 240 calendar days after the receipt of the order by the manufacturer. In the interest of public safety, this delivery date is an extremely important consideration. Accordingly, if the apparatus is not delivered to the city within the 240 days so specified, it shall be understood and agreed that bidder shall pay the city, not as a penalty but as liquidated damages, the following sum for each calendar day after and including the day of delivery: Amount for Liquidated Damages: \$1,000 per day.

### Insurance Certificate

A Manufacturer's Certificate of product liability and facility insurance equal to or exceeding \$25,000,000.00 must be provided with the bid. The certificate must be in original form (no photocopies or fax copies) and shall name the Fire Department or the city/town as the certificate holder.

### Bid Bond

Each bid shall be accompanied by a bid bond in the amount of ten (10) percent of the bid price. Bids submitted without a bond are not responsive and will not be read. The bid bond must be issued by an Insurance Company registered with the Insurance Commissioner of this State. Bonds must be signed by an Officer of the Bidder's Company. Bonds issued by non-registered or foreign Insurance Companies will be immediately rejected.

### Performance Bond

A Performance Bond in a form substantially similar to that provided herewith shall be provided by the successful bidder upon award of a contract. The Performance Bond must be issued by an Insurance Company registered with the Insurance Commissioner of this State. Bonds must be signed by an Officer of the Bidder's Company. Bonds issued by non-registered or foreign Insurance Companies will be immediately rejected.

### Factory Pre-Build Trip

A \$3,000 travel allowance for a factory pre-build trip must be provided in the bid price. Pre-build meeting shall take place at the manufacturer's location and will be for dealer representative and three (3) fire department personnel. All factory trips must be made via air travel if more than 150 miles from Newton, MA, and any unused funds from the travel allowance shall be returned to the fire department.

### Contract

These specifications, together with any documents required herein and addenda hereto, shall be included in the final contract. Each bidder shall submit a copy of their proposed contract form.

### Exceptions

Substitutions, deviations, clarifications, or exceptions to the technical specifications must be listed on a separate page marked, "EXCEPTIONS", and must be accompanied by adequate supportive data to allow the purchaser to determine acceptability. Proposals that are found to have deviations without listing them will be rejected. Components identified by brand names are available to all prospective bidders and exceptions shall not be allowed on these items.

### Certification

The apparatus will be tested and certified by a third party testing company as detailed in the NFPA Standards.

### ISO Compliance

The manufacturer shall operate a Quality Management System under the requirements of ISO 9001. These standards sponsored by the "International Organization for Standardization (ISO)" specify the quality systems that shall be established by the manufacturer for design, manufacture, installation and service. A copy of the certificate of compliance shall be included with the bid. **NO EXCEPTIONS!**

## CHASSIS PREP

### Ember Separator

An Ember Separator shall be provided for the engine air intake in accordance with NFPA.

### Fire Apparatus Ford Prep

The following items shall be installed on the commercial chassis in preparation for fire apparatus/rescue application:

- Fast Idle System - A fast idle system shall be provided and controlled by a cab or pump panel mounted switch. The system shall increase engine idle speed to a preset RPM for increased alternator output.
- Master Light Switch - The master light switch shall consist of one (1) illuminated rocker switch wired through a solenoid to accessory switches to allow pre-selected switches to be turned on or off at one time.
- Battery Master Disconnect - A heavy duty on/off single battery master disconnect switch shall be mounted in the cab within easy reach of the driver.

## ENGINES & TRANSMISSIONS

### Ford F550 Engine

FORD F550 6.7L V8 Diesel Engine

## CHASSIS OPTIONS

### Rear Tow Eyes

Two (2) heavy duty tow eyes made of 3/4" (0.75") thick steel having 2.5" diameter holes shall be bolted directly to the rear of the frame to allow towing (not lifting) of the apparatus. The tow eyes shall be protruding into the rear compartment or out the rear of the body. The tow eyes shall be painted chassis black.

### Tow Hooks

The chassis shall have two (2) forward frame mounted tow hooks.

### Cab Running Boards

Chassis running boards shall be constructed of formed and welded 1/8" aluminum tread brite. Running boards shall extend from the rear of the front fenders to the rear door post.

## CAB MODEL

### Cab Model

Ford Commercial Cab and Chassis 2 door F550 4X2, 165" wheelbase, with Ford F550 6.7L V8 diesel engine, 6 speed automatic, engine block heater, ambulance prep package, dual alternators, manual regen system, limited slip axle, 19,500# GVWR package, preferred equipment package, vinyl seats (40/20/40), XL trim pkg, air conditioning, and am/fm stereo with clock.

## **CAB DOOR OPTIONS**

### **Cab Door Interior Chevron**

Alternating reflective Red and Yellow striping (chevron), positioned on the cab door interior angling down and away from truck.

## **MISC EXTERIOR CAB OPTIONS**

### **Label ``Diesel Fuel Only``**

Located above each fuel filler housing shall be a metallic label that designates "Diesel Fuel Only" requirements. It shall be black with white or equivalent contrasting letters a minimum of 1/2" high.

## **SEATS**

### **Seating Capacity Tag**

A tag that is in view of the driver stating seating capacity of two (2) personnel shall be provided.

## **MISC INTERIOR CAB OPTIONS**

### **Chained Ignition Key**

The ignition key shall be chained to the dash.

### **Cab Console**

A cab mounted console shall be provided. The console shall be for mounting switching and/or in-cab controlled items as applicable. The console shall be centrally located and shall allow the driver and/or officer access to all components while seated with seat belts secured.

The console shall be constructed of aluminum smooth plate with a sanded finish. The top surface shall have a non-reflective material for increased visibility of labels and controls.

All switches located on the console shall be clearly labeled and shall be back lit for easy operation and visibility.

## **CAB ELECTRICAL OPTIONS**

### **Battery Charger Receptacle**

A 20 amp battery charger receptacle shall be installed in the specified location.

The receptacle shall be located driver side front compartment face.

The cover color shall be Yellow.

### **Battery Charger**

An LPC 20 battery charger with remote mounted LED display shall be installed.

A fully automatic charging system shall be installed on the apparatus. The system shall have a 120 volt, 60 hertz, 7 amp AC input with an output of 20 amps 12 volts DC. The battery charging system shall be connected directly to the shoreline to ensure the batteries remain fully charged while the vehicle is in the fire station or firehouse.

The system shall include a remote charging status indicator panel. The panel shall consist of two (2) LED lights to provide a visual signal if battery voltage is good or drops below 11.5 volts. The microprocessor shall be continuously powered from the battery to provide the charge status.

## **BODY SPEC**

### **Non Walk-in Rescue Body Spec EA**

#### **Apparatus Body**

The apparatus body shall be constructed entirely of aluminum plate and extrusions. NO EXCEPTIONS! The interlocking framework, constructed from beveled 6061T5, 6061T6 and 6063T5 extrusions, shall be electrically seam welded both internally and externally at each joint using 5356 aluminum alloy welding wire. The entire exterior body shall be completely sanded and deburred to assure a smooth finish prior to painting. All horizontal surfaces, rear steps, and the rear body surface shall be constructed from aluminum fire apparatus quality diamond plate.

#### **Light Rescue**

Each body corner rail shall be a 5" X 5" aluminum 6063T5 alloy corner section with 1/8" (.125) wall thickness and shall be welded as an integral part of the body. The corner extrusions shall have a 1-1/2" (1.5) outside radius and a full length 1/8" (.125) internal extruded gusset. The non walk-in body shall utilize a 3" x 3" aluminum 6063T5 alloy square extrusion as the apparatus top rail.

The horizontal body side extrusions shall be 1.5" x 4" 6063T6 aluminum tube with 3/16" (.187) wall thickness and 3/16" (.187) outside corner radius. The frame crossmember extrusions shall be 3" x 3" 6061T6 aluminum with 3/8" (.375) wall thickness. These crossmembers shall extend the full width of the body to support the compartment framing, and shall be welded to a 1-3/16" (1.187) x 3" solid aluminum, 6061T5 frame sill extrusion that shall be shaped to contour with the chassis frame rails. The wheel well frame, constructed from 1.5" x 4" 6063T5 aluminum extrusions shall be slotted the full length to permit an internal fit of 1/8" (.125) aluminum diamond plate. The front exterior of the body shall be constructed of 3/16" (.187) and the roof of the body shall be constructed of 1/8" (.125) fire apparatus quality diamond plate. All of the smooth aluminum plate and fire apparatus quality diamond plate shall be 3003 H-14 aluminum alloy.

## **Body**

The rear tailboard step, formed from 3/16" (.187) treadplate and reinforced with a 1.5" x 3" aluminum extrusion and .5" x 3" aluminum flatbar, shall be bolted on to the body from the underside, thereby assuring a clean surface.

Body handrails shall consist of two (2) 36" length of 1.25" O.D. anodized aluminum installed between chrome end stanchions on each side of B1 opening. The handrail extrusion shall be ribbed to assure a good grip for personnel safety.

All body compartment shall be constructed from 1/8" (.125) formed aluminum 3003 H-14 alloy plate. All compartment floors shall be constructed of 1/8" (.125) aluminum fire apparatus quality diamond plate welded in place. Compartment floors shall be supported by a minimum 3/16" (.187) walled aluminum extrusions. The compartment seams shall be sealed by using a permanent pliable silicone caulking. The compartments shall be machine louvered for adequate ventilation.

The three (3) compartments on each side of the body, along with the rear compartment, shall be provided with Robinson brand roll-up doors. The door slats shall be a double wall box frame design, and shall be manufactured from unpainted, anodized aluminum. Each door slat shall have interlocking joints with a pvc/vinyl inner seal to prevent any metal to metal contact and to inhibit moisture and dust penetration.

The door track shall be anodized aluminum with a finishing flange around the perimeter of the door. The track shall have a replaceable side seal to prevent water and dust from entering the compartment. The doors shall be counterbalanced for ease of operation.

A full width latch bar shall be provided along with a positive latch device. A magnetic type switch, integral to the door, shall be supplied for door ajar indication and compartment light activation.

The body shall have a body side protection rubrail along the length of the body on each side and at the rear. The rubrail shall be constructed of minimum 3/16" (.187) thick anodized aluminum 6463T6 extrusion. The rubrail shall be constructed of minimum .1875" thick 6463T6 aluminum extrusion. The rubrail shall be a minimum of 2.75" high X 1.25" deep and shall extend beyond the body width to protect the compartment doors and the body side. The design of the rubrail shall protect any specified marker lights that are mounted inside its C-channel. The top surface of the rubrail shall have 5 serrations raised a minimum of 0.1" high with cross grooves designed to provide a slip resistant edge for the rear step and running boards. The rubrail shall be spaced away from the body using .1875" nylon spacers. The ends of each section shall be provided with a rounded corner piece. The area inside the rubrail C-channel shall be inset with a white reflective material for increased visibility.

A plastic wheel well liner shall be provided for each wheel well. Liner shall be constructed of ABS plastic. The wheel well liner is bolted in. SAE chain clearance shall be provided.

The upper rear compartment doors shall be constructed of 1/8" (.125) fire apparatus quality treadplate with the inner door pans being constructed of smooth aluminum plate. The latches and hinges shall be of the same make and model as the side compartments. The door springs shall be gas shock style for ease of operation.

The apparatus body structure shall be securely fastened to the chassis with 5/8" (.625) O.D. steel U-bolts. Chassis frame rails shall be lined with 5/16" (.312) x 2" fiber reinforced rubber strips to protect the body frame sills from contact with the rails.

A permanent plate mounted in the driver's compartment shall be supplied. It shall specify the quantity and type of the following fluids used in the vehicle: engine oil, engine coolant, chassis transmission fluid, and drive axle lubrication.

All stepping surfaces will be non slip, either with Gator Grip stepping surface or embossed diamond plate.

## **RESCUE BODY LOWER** **12' NWI BODY 4/4/3**

Left and right compartment just in front of rear axle

There shall be one (1) compartment, each side of the module ahead of rear axle. This compartment shall be a transverse compartment from the left side to the right side. The lower section shall be approximately 13" high x 22" deep on each side. The compartment door opening shall be approximately 48" wide x 56" high. These compartments shall contain a total of 129 cubic feet of storage space.

Left and right side over the rear axle

There shall be one (1) compartment, each side of the body, over the rear wheels. This compartment shall be a transverse compartment from the left side to the right side. The compartment door opening shall be approximately 48" wide x 33" high. These compartments shall contain a total of 87 cubic feet of storage space.

Left and right compartment just behind rear axle

There shall be one (1) compartment, each side of the body, directly behind the rear wheels. The compartment shall be approximately 36" wide x 56" high x 22" deep. The compartments shall each contain 25 cubic feet of storage. This includes spring hanger notches if needed.

### **Rescue Non Walk-in Compartmentation EA**

Extend the transverse floors in these compartments to the opening. The floors are made from 3/16" 3003 H230 diamond plate. Floors are welded in place.

### **RESCUE BODY UPPER**

#### **Upper Body Height EA**

Body Height 13": 13" is the measurement from the top of the 1.5 x 4 above the side compartments to the top of the body.

#### **Roof Configuration**

Diamond plate flat roof. Roof will be sealed with silicone and bolted in place using stainless steel hardware. Light rescue body only.

Constructed with 1/8" 3003 H230 diamond plate and 3/16" thick 6061 T6 extrusion.

### **RESCUE BODY REAR**

#### **Rescue Rear Body Compartment**

B-1: upper rear compartment over the frame rails shall be provided.

The compartment shall have approximate interior dimensions of 48" wide x 40" deep x the following height:

- No upper panel: 45" high
- 13" upper body: 55" high

#### **10 inch tlbrd**

10" tailboard made out of 1/8" diamond plate, supported by T6 extrusions. Tailboard is gator grip and runs full width of the body. The tailboard is bolted to the body.

### **BODY COMPT REAR**

#### **Rear Body Panels**

The rear body panels shall be 3/16" aluminum smooth plate painted job color.

### **RESCUE BODY OPTIONS**

#### **Front Body Trim**

The front head board of the body shall be 1/8" aluminum diamond plate.

### **DOORS**

#### **ROM Door**

A ROM brand roll up door with satin finish shall be provided on a compartment 36" wide. The door(s) shall be installed in the following location(s): L3, R3.

The Robinson door slats shall be double wall box frame and manufactured from anodized aluminum. The slats shall have interlocking end shoes on each slat. The slats shall have interlocking joints with a PVC/vinyl inner seal to prevent any metal to metal contact and inhibit moisture and dust penetration.



The track shall be anodized aluminum with a finishing flange incorporated to provide a finished look around the perimeter of the door without additional trim or caulking. The track shall have a replaceable side seal to prevent water and dust from entering the compartment.

The doors shall be counterbalanced for ease in operation. A full width latch bar shall be operable with one hand, even with heavy gloves. Securing method shall be a positive latch device.

A magnetic type switch integral to the door shall be supplied for door ajar indication and compartment light activation.

The door opening shall be reduced by 2" in width and approximately 8-9" in height depending on door height.

#### **ROM Door**

A ROM brand roll up door with satin finish shall be provided on a compartment 48" wide. The door(s) shall be installed in the following location(s): L1, R1, B1.

The Robinson door slats shall be double wall box frame and manufactured from anodized aluminum. The slats shall have interlocking end shoes on each slat. The slats shall have interlocking joints with a PVC/vinyl inner seal to prevent any metal to metal contact and inhibit moisture and dust penetration.

The track shall be anodized aluminum with a finishing flange incorporated to provide a finished look around the perimeter of the door without additional trim or caulking. The track shall have a replaceable side seal to prevent water and dust from entering the compartment.

The doors shall be counterbalanced for ease in operation. A full width latch bar shall be operable with one hand, even with heavy gloves. Securing method shall be a positive latch device.

A magnetic type switch integral to the door shall be supplied for door ajar indication and compartment light activation.

The door opening shall be reduced by 2" in width and approximately 8-9" in height depending on door height.

#### **ROM Door**

A ROM brand roll up door with satin finish shall be provided on a compartments over the wheel well and 48" wide. The door(s) shall be located on L2, R2.

The Robinson door slats shall be double wall box frame and manufactured from anodized aluminum. The slats shall have interlocking end shoes on each slat. The slats shall have interlocking joints with a PVC/vinyl inner seal to prevent any metal to metal contact and inhibit moisture and dust penetration.

The track shall be anodized aluminum with a finishing flange incorporated to provide a finished look around the perimeter of the door without additional trim or caulking. The track shall have a replaceable side seal to prevent water and dust from entering the compartment.

The doors shall be counterbalanced for ease in operation. A full width latch bar shall be operable with one hand, even with heavy gloves. Securing method shall be a positive latch device.

A magnetic type switch integral to the door shall be supplied for door ajar indication and compartment light activation.

The door opening shall be reduced by 2" in width and approximately 8-9" in height depending on door height.

### **MISC BODY OPTIONS**

#### **Rear Mud Flaps**

The rear tires shall have a set of black mud flaps mounted behind the rear chassis wheels.

#### **Overall Height Restriction**

The apparatus shall have an overall height restriction of 8' 4".

#### **Overall Length Restriction**

The unit shall have an overall length restrictions of 23' 11".

#### **Fuel Fill**

A recessed fuel fill shall be provided at the driver side rear wheel well area.

#### **DEF Fill**

A recessed DEF fill shall be provided at the forward driver side rear wheel well area.

## **CASCADE SYSTEM/FILL STATIONS**

### **4 Bottle Breathing Air Cascade System, DOT 6000 PSI**

#### **Codes and Standards**

Air purity shall meet or exceed the standards of the Compressed Gas Association Specification G-7.1 for Grade "E" Breathing Air.

All tubing shall meet NFPA, SAE, JIC and ANSI Standards. All valves shall meet the applicable National Codes such as those of the Bureau of Explosives, DOT and CGA. The entire air system shall meet all requirements established by the Occupational Safety and Health Act, otherwise known as OSHA. Air receivers shall have a four to one safety factor and shall be constructed in accordance with Section VIII of the ASME Code for Unfired Pressure Vessels or Department of Transportation (DOT) Code. All equipment supplied shall be new.

#### **Identification**

All major components and accessories are to be clearly identified with permanently affixed nameplates stating the make, model and serial number. Other pertinent information such as capacities, pressures, voltages, currents, etc., are to be indicated in the proper manner.

#### **Instructions**

Appropriate tags and warning labels shall be affixed where necessary for safety and ease in the operation and adjustment of the valves, switches and controls. A manual shall be delivered with the system containing information on operation, maintenance, troubleshooting and replacement parts.

#### **Testing and Warranty**

All equipment shall be factory assembled, thoroughly tested and backed by a one-year limited warranty covering parts and labor.

All panel mounted gauges shall be rated at least 10% over their working pressure with a 4:1 safety factor. All gauges seeing 6000 PSI shall read at least 7500 PSI with a 4:1 safety factor.

All high pressure hoses shall be rated at 6000 PSI working pressure with a 4:1 safety factor.

All high pressure valves with exception of 3-way valve, shall be soft seat for safety and easy operation. They shall have replaceable seats and be rated at 6000 PSI working pressure with a 4:1 safety factor.

All high pressure tubing shall be as follows:

3/8" O.D. x .049 wall stainless steel, 1/4" O.D. x .049 wall stainless steel, 1/8" O.D. x .035 wall stainless steel (NOTE: may be used on gauges only). All tubing shall be fully annealed and suitable for bending and flaring.

#### **DOT Storage System**

The storage system shall consist of four (4) DOT storage receivers designed and constructed to conform to Department of Transportation codes and standards and in accordance with current OSHA requirements.

Each receiver shall contain a minimum of 509 CF of air at 6000 psig with a safety factor of not less than 2.25:1 at 6000 psig working pressure.

Receivers shall be mounted securely in a vertical or horizontal position in a rack designed for that purpose. Rack to be bolted securely to bed of truck. Each receiver to have its own isolation valve with safety burst disc.

#### **Control Panel**

Each bank shall have an individual pressure gauge and multi-turn control valve located on the control panel.

Panel shall have a back-fill connection with quick-connect fitting for refilling storage vessels.

Panel shall have a 0-7500 PSI master gauge displaying the master pressure of the system.

Panel shall have an Aqua Environment 0-6000 PSI regulator for controlling pressure into the fill station.

Panel shall have a pressure gauge and shut-off valve controlling the pressure going into the fill station. Pressure gauge shall have indication points for 2216 PSI and 4500 PSI bottles.



Panel shall have a 1/4 turn high pressure selector valve to choose between a 4900 PSI and 2400 PSI relief settings.

### **Fill Station**

Mobile 2 position fill station that meets NFPA-1901 guidelines for mobile fill stations.

An automatic, air operated, safety interlock system shall be provided to prevent the accidental filling of a cylinder until the door is completely closed and latched.

The fill station shall be designed so if a cylinder should rupture, rapidly expanding air is vented through an opening in the bottom of the enclosure and out through the compartment floor. A breakaway rubber seal will be provided to seal the compartment floor.

An air storage system must be specified with this fill station.

## **ELECTRICAL SYSTEMS**

### **Multiplex Electrical System**

#### **Electrical System**

The apparatus shall incorporate a Weldon V-MUX multiplex 12 volt electrical system. NO EXCEPTIONS! The system shall have the capability of delivering multiple signals via a CAN bus. The electrical system installed by the apparatus manufacturer shall conform to current SAE standards, the latest FMVSS standards, and the requirements of the applicable NFPA 1901 standards.

The electrical system shall be pre-wired for optional computer modem accessibility to allow service personnel to easily plug in a modem to allow remote diagnostics.

The electrical circuits shall be provided with low voltage over-current protective devices. Such devices shall be accessible and located in required terminal connection locations or weather-resistant enclosures. The over-current protection shall be suitable for electrical equipment and shall be automatic reset type and meet SAE standards. All electrical equipment, switches, relays, terminals, and connectors shall have a direct current rating of 125 percent of maximum current for which the circuit is protected. The system shall have electro-magnetic interference suppression provided as required in applicable SAE standards.

Any electrical junction or terminal boxes shall be weather-resistant and located away from water spray conditions.

#### **Multiplex System**

For superior system integrity, the networked multiplex system shall meet the following minimum component requirements:

- The network system must be Peer to Peer technology based on RS485 protocol. No one module shall hold the programming for other modules. One or two modules on a network referred to as Peer to Peer, while the rest of the network consists of a one master and several slaves is not considered Peer to Peer for this application.
- Modules shall be IP67 rated to handle the extreme operating environment found in the fire service industry.
- All modules shall be solid state circuitry utilizing MOS-FET technology and utilize Deutsch series input/output connectors.
- Each module that controls a device shall hold its own configuration program.
- Each module should be able to function as a standalone module. No “add-on” module will be acceptable to achieve this form of operation.
- Load shedding power management (8 levels).
- Switch input capability for chassis functions.
- Responsible for lighting device activation.
- Self-contained diagnostic indicators.
- Wire harness needed to interface electrical devices with multiplex modules.
- The grounds from each device should return to main ground trunk in each sub harness by the use of ultrasonic splices.

#### **Wiring**

All harnessing, wiring and connectors shall be manufactured to the following standards/guidelines. No exceptions.

- NFPA 1901-Standard for Automotive Fire Apparatus
- SAE J1127 and J1127
- IPC/WHMA-A-620 – Requirements and Acceptance for Cable and Wire Harness Assemblies. (Class 3 – High Performance Electronic Products)

All wiring shall be copper or copper alloys of a gauge rated to carry 125 of the maximum current for which the circuit is protected. Insulated wire and cable 8 gauge and smaller shall be SXL, GXL, or TXL per SAE J1128. Conductors 6 gauge and larger shall be SXL or SGT per SAE J1127.

All wiring shall be colored coded and imprinted with the circuits function. Minimum height of imprinted characters shall not be less than .082” plus or minus .01”. The imprinted characters shall repeat at a distance not greater than 3”.

A coil of wire shall be provided behind electrical appliances to allow them to be pulled away from mounting area for inspection and service work.

### **Wiring Protection**

The overall covering of the conductors shall be loom or braid.

Braid style wiring covers shall be constructed using a woven PVC-coated nylon multifilament braiding yarn. The yarn shall have a diameter of no less than .04” and a tensile strength of 22 lbs. The yarn shall have a service temperature rating of -65 F to 194 F. The braid shall consist of 24 strands of yarn with 21 black and 3 yellow. The yellow shall be oriented the same and be next to each other.

Wiring loom shall be flame retardant black nylon. The loom shall have a service temperature of -40 F to 300 F and be secured to the wire bundle with adhesive-backed vinyl tape.

### **Wiring Connectors**

All connectors shall be Deutsch series unless a different series of connector is needed to mate to a supplier’s component. The connectors and terminals shall be assembled per the connector/terminal manufacturer’s specification. Crimble/Solderless terminals shall be acceptable. Heat shrink style shall be utilized unless used within the confines of the cab.

### **NFPA Required Testing of Electrical System**

The apparatus shall be electrical tested upon completion of the vehicle and prior to delivery. The electrical testing, certifications, and test results shall be submitted with delivery documentation per requirements of NFPA 1901. The following minimum testing shall be completed by the apparatus manufacturer:

#### **1. Reserve capacity test:**

The engine shall be started and kept running until the engine and engine compartment temperatures are stabilized at normal operating temperatures and the battery system is fully charged. The engine shall be shut off and the minimum continuous electrical load shall be activated for ten (10) minutes. All electrical loads shall be turned off prior to attempting to restart the engine. The battery system shall then be capable of restarting the engine. Failure to restart the engine shall be considered a test fail.

#### **2. Alternator performance test at idle:**

The minimum continuous electrical load shall be activated with the engine running at idle speed. The engine temperature shall be stabilized at normal operating temperature. The battery system shall be tested to detect the presence of battery discharge current. The detection of battery discharge current shall be considered a test failure.

#### **3. Alternator performance test at full load:**

The total continuous electrical load shall be activated with the engine running up to the engine manufacturer’s governed speed. The test duration shall be a minimum of two (2) hours. Activation of the load management system shall be permitted during this test. However, an alarm sounded by excessive battery discharge, as detected by the system required in NFPA 1901 Standard, or a system voltage of less than 11.7 volts DC for a 12 volt nominal system, for more than 120 seconds, shall be considered a test failure.

#### **4. Low voltage alarm test:**

Following the completion of the above tests, the engine shall be shut off. The total continuous electrical load shall be activated and shall continue to be applied until the excessive battery discharge alarm activates. The battery voltage shall be measured at the battery terminals. With the load still applied, a reading of less than 11.7 volts DC for a 12 volt nominal system shall be considered a test failure. The battery system shall then be able to restart the engine. Failure to restart the engine shall be considered a test failure.

### **NFPA Required Documentation**

The following documentation shall be provided on delivery of the apparatus:

- A. Documentation of the electrical system performance tests required above.
- B. A written load analysis, including:

- a. The nameplate rating of the alternator.
- b. The alternator rating under the conditions.
- c. Each specified component load.
- d. Individual intermittent loads.

## **LIGHT BARS**

### **Light Bar**

A Whelen Freedom series model FN55QLED 55" all LED light bar shall be installed. The light bar shall have clear lenses and contain two (2) front corner mounted red LED modules and four (4) front LED modules, two (2) red and two (2) white, and two (2) end mounted red LED modules. The front center section shall have two (2) takedown lights. The lightbar shall be equipped with MKEZ7 mounts.

The white LEDs shall be switched off in blocking right of way mode.

The lightbar(s) shall be installed in the following location: Centered on the front body, mounted to the roof with no upper body or mounted on a bracket in front of the body with a 13" upper body.

## **WARNING LIGHT PACKAGES**

### **Lower Level Warning Light Package**

A lower level warning light package consisting of eight (8) Whelen LIN3 Super LED light heads shall be provided.

The rectangular lights shall include chrome flanges where applicable. The lights shall be wired with weatherproof connectors and shall be mounted as close to the corner points of the apparatus as is practical as follows:

- Two (2) Whelen LIN3 Super LED red lights on the front of the apparatus facing forward.
- Two (2) Whelen LIN3 Super LED red lights on the rear of the apparatus facing rearward.
- Two (2) Whelen LIN3 Super LED red lights, (1) each side at the forward most point (as practical).
- Two (2) Whelen LIN3 Super LED red lights, (1) each side at the rearward most point (as practical locate in rub rail if applicable).

All warning devices shall be surface mounted in compliance with NFPA standards.

## **WARNING LIGHTS**

### **Upper Rear Warning Lights**

Whelen model B6LED beacons shall be supplied on polished aluminum mounts. Each unit shall consist of a LED upper beacon with red dome and a 700 series Super LED with Red lens.

The lights shall be located rear upper body on aerial style brackets to meet upper Zone C requirements.

### **Hazard (Door Ajar) Light**

There shall be a 2.5" red incandescent hazard light installed as specified.

The light shall be located center overhead.

## **SIRENS**

### **Electronic Siren**

A Federal PA300 siren model 690010 solid state electronic siren with attached noise-canceling microphone shall be installed. The unit shall be capable of driving a single high power speaker up to 200 watts to achieve a sound output level that meets Class "A" requirements.

Operating modes shall include Hi-Lo, yelp, wail, P.A., air horn and radio re-broadcast.

The siren shall be recessed mounted in the cab.

### **Electronic Siren Control Location**

The electronic siren control shall be located in the center console.

## **SPEAKERS**

### **Speaker**

One (1) Federal model ES100 100 watt speaker shall be mounted using MSBMT-SB mounting kit.

The speaker shall produce a minimum sound output of 120 db(A) at 10 feet to meet current NFPA 1901 requirements.

The speaker shall be located driver side front bumper.

## **DOT LIGHTING**

### **License Plate Light**

One (1) Truck-Lite model 15905 white LED license plate light mounted in a Truck-Lite model 15732 chrome plated plastic license plate housing shall be mounted at the rear of the body.

### **Tail Lights**

Three (3) Whelen model M6 series LED (Light Emitting Diode) lights shall be installed in a vertical 3 light housing each side at rear.

Light functions shall be as follows:

- LED red running light with red brake light in upper position.
- LED amber populated arrow pattern turn signal in middle position.
- LED clear back-up light in lower position.

A one-piece chrome plastic trim shall be mounted around the three (3) individual lights in a vertical position.

### **Marker Light Package**

A TeqNiq LED body marker light package model S330 shall be provided.

Red # S33-RR00-1

Amber # S33-AA00-1

Lights shall be installed as specified.

Upper Body:

- Two (2) lights: (1) One Red on back of body to each side corner facing aft.
- Two (2) lights: (1) One Red each side of body to rear corner.
- Two (2) lights: (1) One Amber each side forward body corner.

Lower Body:

- Three (3) lights: Red centered on back of body recessed in rubrail.
- Two (2) lights: (1) Red each side at the trailing edge of apparatus body, recessed in rubrail.
- Two (2) lights: (1) Amber each side front of body to the side recessed in the rubrail.

## **LIGHTS - COMPARTMENT, STEP & GROUND**

### **Compartment Light Package**

There shall be a minimum of one (1) 4" circular single light bulb mounted in each body compartment greater than 4 cu. ft.

Compartments over 36" in height shall have a minimum of two (2) lights, one (1) high and one (1) low. Transverse compartments shall have a minimum of two (2) lights, located one (1) each side.

Compartment lights shall be wired to a master on/off rocker switch on the cab switch panel. Each light shall be in a resilient shock-absorbent mount for improved bulb life.

The wiring connection for the compartment lights shall be made with a weather-resistant plug in style connector. A single water and corrosion-resistant switch with a polycarbonate actuator and sealed contacts shall control each compartment light. The switch shall allow the light to illuminate if the compartment door is open.

### **Ground Lights**

The apparatus shall be equipped with a sufficient quantity of lights to properly illuminate the ground areas around the apparatus in accordance with current NFPA requirements. The lights shall be EON LED (Light Emitting Diode) with clear lenses. The wiring connections shall be made with a weather resistant plug in style connector.

One (1) light shall be supplied to illuminate the ground below each cab door. Lights in areas under the driver and crew area exits shall be activated automatically when the exit doors are opened.

One (1) ground light shall be supplied under each side of the pump panel area (if equipped).

One (1) ground light shall be installed below each side body staircase (if equipped).

Three (3) ground lights shall be supplied under the rear of the apparatus.

Ground area lights shall be switched from the cab dash with the work light switch.

### **Cab Step Lights**

The apparatus shall be equipped with four (4) lights located two (2) each side to properly illuminate the cab steps in accordance with current NFPA requirements. The lights shall be EON LED (Light Emitting Diode) with clear lenses. The wiring connections shall be made with a weather resistant plug in style connector.

The step lights shall be controlled by the work light switch in cab that is accessible by the driver.

### **LIGHTS - DECK AND SCENE**

#### **Deck Lights**

Two (2) Unity model AGS4413 6" chrome plated 12 volt, 35 watt floodlights shall be installed at the rear of the apparatus. Each light shall be manually operated by an on/off switch at the light.

Location: (1) on each side up high rear of body.

### **MISC ELECTRICAL**

#### **Back-Up Alarm**

An electronic back-up alarm shall be supplied. The 97 dB alarm shall be wired into the chassis back-up lights to signal when the vehicle is in reverse gear.

#### **Electrical Location**

Locate multiplex electrical components recessed between frame rails at rear of body.

### **LIGHTS - QUARTZ**

#### **12 Volt Pioneer Lights (Qty 4)**

Four (4) Whelen Pioneer model PFP2 LED scene lights with PBA203 recess mounts shall be provided. Includes switch in driver side overhead console. Location: driver side forward area recessed into roof top compartment raise, driver side rearward area recessed into roof top compartment raise, officer side forward area recessed into roof top compartment raise, officer side rearward area recessed into roof top compartment raise.

### **MISC LOOSE EQUIPMENT**

#### **DOT Required Drive Away Kit**

Three (3) triangular warning reflectors with carrying case shall be supplied to satisfy the DOT requirement.

### **EXTERIOR PAINT**

#### **Paint Body Small**

The apparatus body shall be painted Sikkens FA97:F1 Vermillion Red. The paint process shall meet or exceed current state regulations concerning paint operations. Pollution control shall include measures to protect the atmosphere, water, and soil. Contractor shall, upon demand, provide evidence that the manufacturing facility is in compliance with State EPA rules and regulations.

The aluminum body exterior shall have no mounted components prior to painting to assure full coverage of metal treatments and paint to the exterior surfaces of the body. Any vertically or horizontally hinged smooth-plate compartment doors shall be painted separately to assure proper paint coverage on body, door jambs and door edges.

Paint process shall feature Sikkens high solid LV products and be performed in the following steps:

- Corrosion Prevention - all aluminum surfaces shall be pre-treated with the Alodine 5700 conversion coating to provide superior corrosion resistance and excellent adhesion of the base coat.
- Sikkens Sealer/Primer LV - acrylic urethane sealer/primer shall be applied to guarantee excellent gloss hold-out, chip resistance and a uniform base color.
- Sikkens High Solid LVBT650 (Base coat) - a lead-free, chromate-free high solid acrylic urethane base coat shall be applied, providing excellent coverage and durability. A minimum of two (2) coats shall be applied.
- Sikkens High Solid LVBT650 (Clear coat) - high solid LV clear coat shall be applied as the final step in order to ensure full gloss and color retention and durability. A minimum of two (2) coats shall be applied.

Any location where aluminum is penetrated after painting, for the purpose of mounting steps, hand rails, doors, lights, or other specified components shall be treated at the point of penetration with a corrosion inhibiting pre-treatment (ECK Corrosion Control). The pre-treatment shall be applied to the aluminum sheet metal or aluminum extrusions in all locations where the aluminum has been penetrated. All hardware used in mounting steps, hand rails, doors, lights, or other specified components shall be individually treated with the corrosion inhibiting pre-treatment.

After the paint process is complete, the gloss rating of the unit shall be tested with a 20 degree gloss meter. Coating thickness shall be measured with a digital MIL gauge and the orange peel with a digital wave scan device.

**STRIPING**  
**Striping**

Reflective striping shall be provided and installed by the local dealer as per Newton Fire Department specifications.

**Rear Body 3M Diamond Grade Striping**

Chevron style 3M Diamond Grade striping shall be provided on the rear of the apparatus. The stripes shall consist of 6" Yellow/Red alternating stripes in an "A" pattern. The striping shall be located on the rear facing extrusions, panels and doors inboard and outboard of the beavertails if applicable.

**WARRANTY / STANDARD & EXTENDED**

**Standard 2 Year Warranty**

Statement of Warranty

**2-Year Standard**

The apparatus manufacturer shall provide a full 2-year standard warranty. All components manufactured by the apparatus manufacturer shall be covered against defects in materials or workmanship for a 2-year period. All components covered by separate suppliers such as chassis, engines, transmissions, tires, and batteries shall maintain the warranty as provided by the component supplier. A copy of the warranty document shall be provided with the proposal.

**10 Year 100,000 Mile Structural Warranty**

The apparatus manufacturer shall provide a comprehensive 10 year/100,000 mile structural warranty. This warranty shall cover all structural components of the cab and/or body manufactured by the apparatus manufacturer against defects in materials or workmanship for 10 years or 100,000 miles, whichever occurs first. Excluded from this warranty are all hardware, mechanical items, electrical items, or paint finishes. A copy of the warranty document shall be provided with the proposal.

**10 Year Paint and Corrosion Warranty**

The apparatus manufacturer shall provide a 10-year limited paint and corrosion perforation warranty. This warranty shall cover paint peeling, cracking, blistering, and corrosion provided the vehicle is used in a normal and reasonable manner.

The paint shall be prorated for 10 years as follows:

Topcoat & Appearance:		Coating System, Adhesion & Corrosion:	
Gloss, Color Retention, Cracking		Includes Dissimilar metal corrosion, Flaking, Blistering, Bubbling	
0 to 72 months	100%	0 to 36 months	100%
73 to 120 months	50%	37 to 84 months	50%
		85 to 120 months	25%

Corrosion perforation shall be covered 100% for 10 years. Corrosion perforation is defined as complete penetration through the exterior metal of the apparatus.

The warranty period shall begin upon delivery of the apparatus to the original user-purchaser. A copy of the warranty document shall be provided with the proposal.

UV paint fade shall be covered in a separate warranty supplied by Akzo Nobel (Sikkens) and shall be for a minimum of 10 years.

**SUPPORT, DELIVERY, INSPECTIONS AND MANUALS**

**Electronic Manuals**

Two (2) copies of all operator, service, and parts manuals MUST be supplied at the time of delivery in electronic format (CD-ROMs) -NO EXCEPTIONS! The electronic manuals shall include the following information:

Operating Instructions, descriptions, specifications, and ratings of the cab, chassis, body, installed components, and auxiliary systems.

Warnings and cautions pertaining to the operation and maintenance of the fire apparatus and firefighting systems.

Charts, tables, checklists, and illustrations relating to lubrication, cleaning, troubleshooting, diagnostics, and inspections.

Instructions regarding the frequency and procedure for recommended maintenance.

Maintenance instructions for the repair and replacement of installed components.

Parts listing with descriptions and illustrations for identification.

Warranty descriptions and coverage.

The CD-ROM shall incorporate a navigation page with electronic links to the operator's manual, service manual, parts manual, and warranty information, as well as instructions on how to use the manual. Each copy shall include a table of contents with links to the specified documents or illustrations.

The CD must be formatted in such a manner as to allow not only the printing of the entire manual, but to also the cutting, pasting, or copying of individual documents to other electronic media, such as electronic mail, memos, and the like.

A find feature shall be included to allow for searches by text or by part number.

These electronic manuals shall be accessible from any computer operating system capable of supporting portable document format (PDF). Permanent copies of all pertinent data shall be kept file at both the local dealership and at the manufacturer's location.

NOTE: Engine overhaul, engine parts, transmission overhaul, and transmission parts manuals are not included.

#### **Dealer Supplied Items**

- Lettering as specified by Newton Fire Department
- Prep and Transport charges
- \$5,000 allowance for tool mounting and shelving fabrication as specified by the Newton Fire Department



# **CITY OF NEWTON, MASSACHUSETTS**

## **PURCHASING DEPARTMENT**

### **GENERAL TERMS AND CONDITIONS**

1. The right is reserved to reject any and all bids, to waive informalities, and to make award as may be determined to be in the best interest of the City of Newton.
2. Prices quoted must include delivery to the City, as specified on the Purchase Order.
3. No charges will be allowed for packing, crating, freight, Express or cartage unless specifically stated and included in the bid.
4. The award to the successful bidder may be canceled if successful bidder shall fail to prosecute the work with promptness and diligence.
5. Time in connection with discount offered will be computed from the date of delivery to the City, as specified on purchase order, or from date correct invoice is received by the City, if the latter date is later than the date of delivery.
6. The successful bidder shall replace, repair or make good, without cost to the City, any defects or faults arising within one (1) year after date of acceptance of articles furnished hereunder (acceptance not to be unreasonably delayed) resulting from imperfect or defective work done or materials furnished by the Seller.
7. The Seller shall indemnify and save harmless the City and all persons acting for or on behalf of it from all suits and claims against them, or any of them, arising from or occasioned by the use of any material, equipment or apparatus, or any part thereof, which infringes or is alleged to infringe on any patent rights. In case such material, equipment or apparatus, or any part thereof, in any such suit is held to constitute infringement, the Seller, within a reasonable time, will at its expense, and as the City may elect, replace such material, equipment or apparatus with non-infringing material, equipment or apparatus, or remove the material, equipment or apparatus, and refund the sums paid therefor.
8. The successful bidder shall comply with all applicable Federal State and Local laws and regulations.
9. Purchases made by the City are exempt from Federal excise taxes and bid prices must exclude any such taxes. Tax exemption certificates will be furnished upon request.
10. If so stated in the Invitation For Bid the successful bidder will be required to furnish a performance and/or a labor and material payment bond, in an amount, in a form and with a surety satisfactory to the City. The bidder shall be responsible for the cost of the bond(s).
11. If the Invitation for Bids requires bid surety, this surety shall be in the form of a cash, bid bond, cashier's check, treasurer's check, or certified check on a responsible bank, payable to the City of Newton, and must be filed with the original bid in the Office of the Chief Procurement Officer. Failure to do so will lead to rejection of bid. The bid surety will be returned to the successful bidder within seven (7) days execution of awarded, and approval by the City of performance and/or payment bond(s). In case of default, the bid surety shall be forfeited to the City.
12. Verbal orders are not binding on the City and deliveries made or work done without formal Purchase Order or Contract are at the risk of the Seller or Contractor and may result in an unenforceable claim.
13. The Seller shall agree to indemnify, defend and hold the City harmless from any and all claims arising out of the performance of this contract.
14. "Equal" - An item equal to that named or described in the specifications of the contract may be furnished by the Bidder and the naming of any commercial name, trademark or other identification shall not be construed to exclude any item or manufacturer not mentioned by name or as limiting competition but shall establish a standard of equality only. An item shall be considered equal to the item so named or described if (1) it is at least equal in quality, durability, appearance, strength and design; (2) it will perform at least equally the function imposed by the general design for the work being contracted for or the material being purchased; and (3) it conforms substantially, even with deviations, to the detailed requirements for the item in the



specifications. The name and identification of all materials other than the one specifically named shall be submitted to the City in writing for approval, prior to purchase, use or fabrication of such items. Subject to the provisions of M.G.L., c.30, §39J, approval shall be at the sole discretion of the City, shall be in writing to be effective, and the decision of the City shall be final. The City may require tests of all materials so submitted to establish quality standards at the Bidder's expense. All directions, specifications and recommendations by manufacturers for installation, handling, storing, adjustment and operation of their equipment shall be complied with; responsibility for proper performance shall continue to rest with the Bidder.

For the use of material other than the one specified, the Bidder shall assume the cost of and responsibility for satisfactorily accomplishing all changes in the work as shown. If no manufacturer is named, the Bidder shall submit the product he intends to use for approval of the City.

Except as otherwise provided for by the provisions of M.G.L., c.30, §39J, the Bidder shall not have any right of appeal from the decision of the City condemning any materials furnished if the Bidder fails to obtain the approval for substitution under this clause. If any substitution is more costly, the Bidder shall pay for such costs."

15. Notice is hereby given that the Mayor's Affirmative Action Plan for the City of Newton, dated July 1995 Applicable to all contract in excess of \$10,000.00 A copy of this plan is on file at the City of Newton, Purchasing Dept. This paragraph applies to City of Newton purchases only.
16. Notice is hereby given that the City of Newton Minority/Women Business Enterprise Plan dated December 1999 is applicable to all City of Newton contracts for materials and supplies. A copy of this plan may be obtained from the Purchasing Department.
17. Right To Know:

Any Bidder who receives an order or orders resulting from this invitation agrees to submit a Material Safety Data Sheet (MSDS) for each toxic or hazardous substance or mixture containing such substance, pursuant to M.G.L., Ch. 111F, SS8, 9 and 10 and the regulations contained in 441 CMR SS 21.06 when deliveries are made. The Bidder agrees to deliver all containers properly labeled pursuant to M.G.L. Ch. 111F, SS 7 and the regulations contained in 441 CMR SS 21.05. Failure to submit an MSDS and/or label on each container will place the Bidder in noncompliance with the purchase order. Failure to furnish MSDSs and/or labels on each container may result in civil or criminal penalties, including bid debarment and action to prevent the Bidder from selling said substances or mixtures containing said substances within the Commonwealth. All Bidders furnishing substances or mixtures subject to Chapter 111F of the M.G.L. are cautioned to obtain and read the law and rules and regulations referred to above. Copies can be obtained from the State House Book Store, Secretary of State, State House, Room 117, Boston, MA 02133, (617-727-2834) for \$2.00 plus \$.65 postage.

**FAILURE TO COMPLY WITH THESE TERMS AND CONDITIONS COULD RESULT IN THE  
CANCELLATION OF YOUR CONTRACT.**

## **CONTRACT FORMS**

The awarded bidder will be required to complete and submit documents substantially similar in form to the following.

These forms may need to be modified on account of changed circumstances, and are provided for informational purposes only.

**CITY OF NEWTON**  
**CITY – CONTRACTOR AGREEMENT**  
**#C - \_\_\_\_\_**

This contract made by and between

Party of the first part, hereinafter referred to as “The Company” and the **City of Newton**, a municipal corporation organized and existing under the laws Of the Commonwealth of Massachusetts, party of the second part, hereinafter referred to as “The Buyer” or "the City", Acting through its Fire Chief and Chief Procurement Officer, but without personal liability to them.

**Witnesseth** the parties hereto for the considerations hereinafter set forth agree as follows:

1. The company agrees to sell, upon the conditions written below, vehicle and equipment in accordance with City of Newton Invitation For Bid #14-06 and the company’s response thereto, which are hereby incorporated by reference and made as fully a part of this agreement and contract as is fully reproduced herein.
2. In the event that the company’s equipment specifications, contained in its response and the equipment specifications contained in the buyer’s Invitation For Bid are in conflict with one another, the company’s specifications shall apply. In the event any provision(s) of the buyers Invitation For Bid and/or the company’s response conflict(s) with any provision(s) of this contract, the parties intend to be bound by the provisions of this contract.
3. All applicable Federal, State and Local laws and regulations are incorporated herein by reference and the contractor agrees to comply with the same.
4. The said vehicle and equipment shall be delivered by the company within approximately 90 business days following receipt of this award. Delivery shall be subject to delays due to strikes, materials availability and other causes that could be anticipated and are beyond the company’s control. A penalty fee of \$250.00 per calendar beyond the delivery date shall be imposed upon the contractor. Vehicle and equipment shall be accepted by the buyer, F.O.B. Newton, Massachusetts, including all applicable Federal and State taxes. If the buyer of the product is exempt from taxes, it shall be the responsibility of the buyer to provide a tax exempt certificate acceptable to the company.
5. If full acceptance tests are required to be performed at the buyer’s location, such tests shall be made upon arrival at destinations, while the vehicle is in the care, custody, and control of the company.
6. For the purposes of inspection of the equipment, materials and supplies covered by this contract, the company shall give the buyer free access to the company’s works and furnish every facility for properly inspecting such equipment, materials and supplies, and shall furnish full information, whenever requested, relating thereto. Approval by any inspector of the City shall not relieve the company from its obligation to comply in all respects with the contract.
7. All contracts are taken subject to the written acceptance of \_\_\_\_\_, by an officer of the company. When requested, the buyer shall furnish satisfactory opinion of the buyer’s Attorney as to the power of the buyer to enter into said contract, and that said contract is valid, legal and enforceable obligation of the buyer, and that the official executing the contract for the buyer has the authority to do so.
8. This agreement embodies the entire understanding between the parties relating to the subject matter contained herein, and merges all prior discussions and agreements between them. No agent or representative of the company has the authority to make any representations, statements or agreements not expressed herein. All modifications or amendments of this contract, including its appendices, must be in writing and must be signed by an authorized representative of each party.

9. The vehicle is subject to limited warranties as provided by the manufacturers of both the completed vehicle and its components. Copies of major component warranties shall be provided on delivery.
10. The company agrees, unless otherwise specified, that all equipment, materials and supplies furnished under this contract are to be first quality, new and unused.
11. The company agrees to assume the defense of and shall indemnify and save harmless the buyer and all persons acting for or on behalf of it from all suits and claims against them, or any of them, arising from or occasioned by the use of any material, equipment or apparatus, or any part thereof which infringes or is alleged to infringe on any patent rights. In case such material, equipment or apparatus, or any part thereof, in any such suit is held to constitute infringement, the company, within a reasonable time, shall at its own expense, and as the buyer may elect, replace such material, equipment or apparatus with non-infringing material, equipment or apparatus, or remove the material, equipment or apparatus and refund the sums paid therefor.
12. The company reserves the right to make product improvements without notice.
13. There shall be no less than four (4) days of training provided by the manufacturer with a training engineer. A total of four (4) days of Driver training shall be provided.
14. Apparatus paint color(s) shall be:
- |           |           |
|-----------|-----------|
| BODY:     | RED       |
| CAB:      | RED/WHITE |
| CAB ROOF: | WHITE     |
15. The vehicle being purchased shall comply with NFPA 2004 standard to the extent the attached specifications permit. If an item in one of these standards is not supplied with or designed into the vehicle, it is because the buyer did not desire to include it on the vehicle.
16. All threads provided on the vehicle or on supplied equipment shall be NST, unless noted to the contrary.
17. The buyer agrees to pay as purchase price for the vehicle, accepted as aforesaid, the sum of:
- (\$ \_\_\_\_\_)
18. Payment terms: two payments shall be made in the following manner:
- \$— 1<sup>st</sup> payment upon completion and inspection of chassis (VIN# shall appear on invoice)  
\$— final payment upon delivery and acceptance of the vehicle. The manufacturer's statement of origin for the vehicle shall be presented to the buyer upon payment.
19. In the performance of any work, including the delivery of equipment, materials or supplies, pursuant to this contract, the company shall take all responsibility for the work being performed under this contract, and shall take all precautions for preventing injuries to persons and property in or about the work and shall defend, indemnify and hold the buyer harmless from all loss, cost, damage or expense arising from injuries to persons or property in or about the work. The company shall be responsible for any damage which may be caused by the failure or insufficiency of any temporary works. The company shall effectively protect its work, and in particular shall take care to prevent loss or damage to the vehicle prior to its delivery to the buyer and shall be liable for all damage and loss by delay or other wise caused by its neglect or failure so to do.
20. The seller shall provide the buyer with a Performance Bond for 100% of the amount of the contract total.
21. The buyer may, by written notice of default to the company, terminate the whole or any part of this contract pursuant thereto in any one of the following circumstances:
- a. If the company fails to make delivery of the equipment, goods or supplies or to perform the services within the time specified herein or any extension thereof;
  - b. If the company fails to perform any of the other provisions of this contract or, if in the opinion of the buyer, company so fails to make progress as to endanger performance of this contract in accordance of this contract in accordance with its terms, and in either of these two circumstances does not correct such failure within thirty (30) days (or such longer period as the buyer may authorize in writing) after receipt of notice from the buyer specifying such failure.

22. The provisions of this contract are severable. If any section, paragraph, clause or provision of this contract shall be finally adjudicated by a court of competent jurisdiction to be invalid, the remainder of this contract shall be unaffected by such adjudication and all of the remaining provisions of this contract shall remain in full force and effect as though such section, paragraph, clause or provision, or any part thereof so adjudicated to be invalid, had not been included herein, unless such remaining provisions, standing alone, are incomplete and incapable of being executed in accordance with the intent of the parties to this contract.

23. This contract shall be governed by and construed in accordance with the laws of the Commonwealth of Massachusetts.

IN WITNESS WHEREOF, the parties have caused this instrument to be executed under seal the day and year first above written.

**CONTRACTOR**

**CITY OF NEWTON**

By \_\_\_\_\_  
Print Name \_\_\_\_\_  
Title \_\_\_\_\_  
Date \_\_\_\_\_

*Affix Corporate Seal here*

City funds in the amount of \$ \_\_\_\_\_  
are available in account number: \_\_\_\_\_

I further certify that the Mayor, or his  
designee, is authorized to execute contracts  
and approve change orders

By \_\_\_\_\_  
*Comptroller of Accounts*

Date \_\_\_\_\_

By \_\_\_\_\_  
*Chief Procurement Officer*

Date \_\_\_\_\_

By \_\_\_\_\_  
*Fire Chief*

Date \_\_\_\_\_

Approved as to Legal Form and Character

By \_\_\_\_\_  
*Associate City Solicitor*

Date \_\_\_\_\_

CONTRACT AND BONDS APPROVED

\_\_\_\_\_  
*Mayor or his designee*

Date \_\_\_\_\_

## CERTIFICATE OF AUTHORITY - CORPORATE

1. I hereby certify that I am the Clerk/Secretary of \_\_\_\_\_  
(insert full name of Corporation)
2. corporation, and that \_\_\_\_\_  
(insert the name of officer who signed the **contract and bonds.**)
3. is the duly elected \_\_\_\_\_  
(insert the title of the officer in line 2)
4. of said corporation, and that on \_\_\_\_\_  
(insert a date that is ***ON OR BEFORE*** the date the officer signed the **contract and bonds.**)

at a duly authorized meeting of the Board of Directors of said corporation, at which all the directors were present or waived notice, it was voted that

5. \_\_\_\_\_ the \_\_\_\_\_  
(insert **name** from line 2) (insert **title** from line 3)

of this corporation be and hereby is authorized to execute contracts and bonds in the name and on behalf of said corporation, and affix its Corporate Seal thereto, and such execution of any contract of obligation in this corporation's name and on its behalf, with or without the Corporate Seal, shall be valid and binding upon this corporation; and that the above vote has not been amended or rescinded and remains in full force and effect as of the date set forth below.

6. ATTEST: \_\_\_\_\_  
(Signature of **Clerk or Secretary**)\*

*AFFIX CORPORATE  
SEAL HERE*

7. Name: \_\_\_\_\_  
(Please print or type name in line 6)\*

8. Date: \_\_\_\_\_  
(insert a date that is ***ON OR AFTER*** the date the officer signed the **contract and bonds.**)

\* The name and signature inserted in lines 6 & 7 **must** be that of the **Clerk or Secretary** of the corporation.

## CERTIFICATION OF TAX COMPLIANCE

Pursuant to M.G.L. c.62C, §49A and requirements of the City, the undersigned acting on behalf of the Contractor certifies under the penalties of perjury that the Contractor is in compliance with all laws of the Commonwealth relating to taxes including payment of all local taxes, fees, assessments, betterments and any other local or municipal charges (unless the Contractor has a pending abatement application or has entered into a payment agreement with the entity to which such charges were owed), reporting of employees and contractors, and withholding and remitting child support.\*

\_\_\_\_\_  
\*\*Signature of Individual  
or Corporate Contractor (Mandatory)

\_\_\_\_\_  
\*\*\* Contractor's Social Security Number  
(Voluntary) or Federal Identification Number

Print Name:\_\_\_\_\_

By: \_\_\_\_\_  
Corporate Officer  
(Mandatory, if applicable)

Date: \_\_\_\_\_

Print Name:\_\_\_\_\_

\* The provision in this Certification relating to child support applies only when the Contractor is an individual.

\*\* Approval of a contract or other agreement will not be granted until the City receives a signed copy of this Certification.

\*\*\* Your social security number may be furnished to the Massachusetts Department of Revenue to determine whether you have met tax filing or tax payment obligations. Providers who fail to correct their non-filing or delinquency will not have a contract or other agreement issued, renewed, or extended.

**CITY OF NEWTON, MASSACHUSETTS**

**PERFORMANCE BOND**

Know All Men By These Presents:

That we, \_\_\_\_\_, as PRINCIPAL, and  
, as SURETY, are held and firmly bound unto the City of Newton as Obligee, in the sum of  
\_\_\_\_\_ dollars (\$ \_\_\_\_\_) to be paid to the  
Obligee, for which payments well and truly to be made, we bind ourselves, our respective heirs, executors,  
administrators, successors and assigns, jointly and severally, firmly by these presents.

Whereas, the said PRINCIPAL has made a contract with the Obligee, bearing the date  
of \_\_\_\_\_, 20\_\_\_\_, for the construction of

\_\_\_\_\_  
(Project Title)  
in Newton, Massachusetts.

Now, the condition of this obligation is such that if the PRINCIPAL and all Sub-contractors under said contract shall well and truly keep and perform all the undertakings, covenants, agreements, terms and conditions of said contract on its part to be kept and performed during the original term of said contract and any extensions thereof that may be granted by the Obligee, with or without notice to the SURETY, and during the life and any guarantee required under the contract, and shall also well and truly keep and perform all the undertakings, covenants, agreements, terms and conditions of any and all duly authorized modifications, alterations, changes or additions to said contract that may hereafter be made, notice to the SURETY of such modifications, alterations, changes or additions being hereby waived, then this obligation shall become null and void; otherwise, it shall remain in full force, virtue and effect.

In the event, that the contract is abandoned by the PRINCIPAL, or in the event that the Obligee terminates the employment of the PRINCIPAL or the authority of the PRINCIPAL to continue the work said SURETY hereby further agrees that said SURETY shall, if requested in writing by the Obligee, take such action as is necessary to complete said contract.

In Witness Whereof, the PRINCIPAL and SURETY have hereto set their hands and seals this \_\_\_\_\_ day  
of \_\_\_\_\_, 20\_\_\_\_.

PRINCIPAL

SURETY

\_\_\_\_\_

\_\_\_\_\_

BY \_\_\_\_\_  
(SEAL)

BY \_\_\_\_\_  
(ATTORNEY-IN-FACT) (SEAL)

\_\_\_\_\_  
(Title)

ATTEST: \_\_\_\_\_

ATTEST: \_\_\_\_\_



## ATTACHMENT - A

**a) LIST OF EXCEPTIONS OR EQUALS TO SPECIFICATIONS**

Bidder must itemize all deviations in detail to the specifications herein, identifying the page in the specifications to which the exception relates. If this is not sufficient space, attach additional copies of this sheet as required. A statement referring to manufacturer's literature or specifications without stating the actual deviation will be cause for disqualification. Unless otherwise stated by the bidder in the space provided below, the proposal will be considered as being in strict accordance with the specifications outlined herein even though the manufacturer's literature may indicate deviations from the attached specifications.

[illegible]

COMPANY: \_\_\_\_\_

**END OF SECTION**

## Service Questionnaire

The ASCA is an essential firefighting and life-saving apparatus and prompt and reliable servicing is an important consideration in awarding the purchase contract. The determination of "responsibility" will be based on a bidder's ability to provide prompt and reliable service when repairs to the ASCA are required. According, the bidder shall include all the following information with its bid. Unanswered or incomplete questionnaires shall be deemed nonresponsive.

- ◆ Number of miles from the purchaser to the nearest staffed service facility owned and operated by the bidder

Number of miles \_\_\_\_\_

- ◆ The number of service bays and square feet of service space at the bidder's service facility.

Number of bays \_\_\_\_\_ Square feet \_\_\_\_\_

- ◆ The length of time the service facility has been in business as an emergency vehicle dealer.

Number of years in business \_\_\_\_\_

- ◆ How long has the dealer been selling the brand of emergency vehicle being proposed?

Number of years \_\_\_\_\_

- ◆ Has the dealer/distributor represented other manufacturers of emergency vehicles in the past?

Yes \_\_\_\_\_ No \_\_\_\_\_

If yes, why was the change made? \_\_\_\_\_

- ◆ Number of emergency vehicles that have been delivered by the dealer/distributor since it has been in business representing its current "brand(s)" of emergency vehicles

Number of vehicles delivered \_\_\_\_\_

- ◆ Is the dealership strictly dedicated to selling and servicing emergency vehicles and equipment, or do they sell and service other products?

Strictly dedicated to emergency vehicles and equipment? Yes \_\_\_\_\_ No \_\_\_\_\_

- ◆ Number of EVT Certified personnel employed? EVT "Master Mechanics"?

EVT certified personnel \_\_\_\_ EVT "Master Mechanics" \_\_\_\_

- ◆ Number of full-time mechanics employed by the bidder that are solely dedicated to servicing emergency vehicles?

Number solely dedicated to emergency vehicle service \_\_\_\_

- ◆ Full body/collision repair, fabrication, and paint booth on-site?

Yes \_\_\_\_\_ No \_\_\_\_\_

- ◆ Over \$750,000 in parts inventory available at all times?

Yes \_\_\_\_\_ No \_\_\_\_\_

- ◆ Does the local service facility accept work on other vehicles (i.e., DPW, oil, concrete, etc..) or fleet trucks in addition to emergency vehicles on a regular basis?

Yes \_\_\_\_\_ No \_\_\_\_\_

- ◆ If yes, what percentage of repair work is non-emergency vehicle related?

% \_\_\_\_\_

- ◆ Does the possibility exist that the emergency vehicle may have to go back to the original manufacturer's location for warranty work?

Yes \_\_\_\_\_ No \_\_\_\_\_

If yes, please describe some examples \_\_\_\_\_

- ◆ Does the dealer/distributors service facility perform ALL warranty work for the products they represent?

Yes \_\_\_\_\_ No \_\_\_\_\_

If no, please describe where work may be performed \_\_\_\_\_